with our experience. As noted in BAI's report, the actual cost will not be known until a contractor submits a bonded bid in response to a clear set of specifications. The Institute has provided a range for unit prices to attempt to compensate for that factor.

Upon reviewing past projects at the Southdale Office Centre and similar projects throughout 1989 year to date, the Institute has found removal prices to be far less than those presented in BAI's report. Described below as Project #1 and Project #2 are actual scenarios:

PROJECT 61 - Southdale Office Centre 6800 Building. This project involved the abstement of sprayed-on fire proofing and thermal system insulation on the seventh floor, east and south wings, and the east and south return air shafts which extended from the basement through the seventh floor inclusive. The scope of work included the removal of approximately 13,000 square feet of fire proofing applied to bar joists, columns, beams, and corrugated decking on the seventh floor; approximately 8,000 square feet of sprayed-on fire proofing attached to metal lath creating a fire barrier ceiling in Suites 725 and 795; approximately 10,400 square feet of fire proofing from the walls, ducts, and columns in the east and south shafts; and approximately 600 lineal feet of asbestes-containing thermal system insulation from the east and south shafts. This project was conducted in conjunction with the mechanical retrofit over a period of 30 days, 24-hours a day until project completion. The following costs were associated with the project:

Abstement of Sprayed-on Fire Proofing and Reinsulation/Removal of Thermal System Insulation and Reapplication

6346,000

A/E and Honitoring

\$ 65,000

The following is a breakdown of these costs into unit prices:

\$346,000 divided by 31,400 SQ. FT. - \$11.00 per SQ.FT.

PROJECT 62 - Southdale Office Centro 6800 Building. This project involved a shatement of sprayed on five proofing on the seventh floor, west wing, Suites 750. The scope of work included the removal of approximately 10,700 equare feet of five proofing applied to the bar joists, solumns, beams, wire metal lath, and corrugated decking. This project ran approximately 2 weeks, double shifts, 5 days a wakk, no weekends. The following costs were associated with the project:

Abstament, Sprayed-on Fire Proofing and Reinsulation 10,700 SQ. Fr.

\$106,000

A/E and Monitoring

\$ 17,000

The following is a breakdown into unit prices:

\$106,000.00 divided by 10,700 - \$9.90 per SQ. FT.

As noted from previous projects conducted at the Southdale Office Centre, the square foot cost for removal and reinsulation was extremely low which is partially due to

MC 52 .89 14:31

P.,

the competitive market in the Twin Gities. It is important to note that these projects were conducted during the Spring and Summer of 1988. Since then, the adoption of the Minnesota Department of Health Regulations have required that asbestos contractors and workers become licensed within the state, pay a 1% permit fee and are held to higher public health standards. This has had an effect on the costs of abatement, which is indicative of the unit prices. We have found, through the Summer of 1989, that the prices for removal of fire proofing range from \$15.00 to \$22.00 a square foot. In addition, we have just completed a 3.7 million dollar emergency project for a school complex which began on May 6, 1989, and was completed on July 20, 1989, involving the removal of asbestos-containing fire proofing on all structural members and overspray throughout. The amount of asbestos-containing fire proofing totalled approximately 300,000 square feet and included the removal of the entire suspended ceiling system and light fixtures. The actual unit cost for fire preofing removal in this case amounted to \$12.00 per square foot. This cost did not include reinsulation. The bid ranges were \$12.00 · \$19.00 per square foot.

The abstement cost estimates that the Institute provided did not include consulting services. BAI estimates include costs to prepare the technical specification and bid documents, along with assisting your organization in the selection of a qualified abstement contractor. They further stated that the estimates also include costs to monitor the abstement contractor's performance; to collect, analyze, and interpret environmental air samples during the project; and to prepare a report which will document the quality of the project.

BAI also stated that the cost estimates to provide ACH consultation and to monitor the ACH abatement are based upon the assumption that the contractor would work one shift. S hours per day, 5 days per week, per their estimated schedule.

The consulting services cost from BAI do reflect the Twin Cities market. Those costs are similar to what the Institute or any other consulting firm in the Twin Cities would charge to provide A/E monitoring services.

In conclusion, it is the Institute's belief that the cost for the Ambestos removal and reinsulation in the 6800 Building as indicated in the Hay 20, 1988 Inspect: Profile for the Southdale Office Centre, of approximately \$5,000,000 is still accurate for the Twin Cities market. I would agree with BAI that the costs for removal and reinsulation in both the 6700 and 6750 Building should increase and are approximately \$38,000 each. The following is an update to our cost estimates of Hay 20, 1988.

ASBESTOS-CONTAINING MATERIAL	٠.	COST ESTIMATE	ACTUAL COST
6800 Building			
Sprayed-on Fire Proofing Removal and Reinsulstion			
(remaining 7th Floor)		\$ 120,000	
(previously removed 7th Floor)			\$452,000

lst - 6th Floors

Sprayad-on Fire Proofing Removal and Reinsulation Approximately \$600,000 per floor

\$3,600,000

Basement

Sprayed-on Fire Proofing Removal and Reinsulation (this includes the boiler room)

\$ 650,000

6750 Building

ACM Ramoval and Reinsulation and/or Replacement

38,000

6700 Building

ACH Removal and Reinsulation and/or Replacement

\$ 38,000

SUB TOTALS:

A/E and Monitoring ACH	\$ 343,000±
ACH Removal (remainder)	\$4,446,000
Contingency 10%	\$ <u>478,000</u>
TOTAL	65 767 000

All of the aforementioned prices were calculated utilizing the high range of the scale.

Finally, it is important to note that the Southdale Office Centre now har an operations and maintenance program, and the maintenance and custodial staff have attended a one-day course on asbestos hazards.

I hope this information is helpful. If you have any nomments or questions regarding this information, please don't hesitate to contact me at 612/427-7870.

Bincoroly,

Joe Schwartzbauer

Manager, Project Development

JS:4z/mu3

ec: Howard Siegel

^{*} Extracted from BAI Report.

PPENDIX

APPENDIX I

GENERAL LEDGER JANUARY 1, 1990 THROUGH DECEMBER 31, 1995

Run Dati Time: 10	e: 02/25/91 3:34:30	Client h YTD General Southdale Of As of Decemb	l Ledger ffice Centre		Page S
Gen Sui	Description	J Ref	Debit	Credit	Balanc
1510 000	80 Building	****		8,	726,581.07
01/31/96	Albinson	AP 00293		2,926.31	
	January Total		0.00	2,926.31	•
•		••••••••••••••••••••••••••••••••••••••		8,	723,654.76
02/01/90	Trans-Alarm, Inc.	AP 00586	44,009.48		
	February Total	_	44,009.48	0.00	
	خلق فيما ومن المناور ا	-		8.7	67,664.24
03/01/90	Rcl Trans Al to/18	310 GJ 03047	·	44,609.48	
	March Total		0.00	44,009.48	
				8,7	23,654.76
06/30/90	Reclass REI fr/17.1	0 GJ 06005	4,257.00		
	June Total		4,257.00	9.00	
				8,7	27,911.76
	****	YYD Total	48,266.48	46,935.79	
	•			8,7	27,911.76
	8 Building Imrove				0.00
	Thompson Plasterin		15,500.00 56,155.00		
3/31/90	Allegro Technology Rcl Thompson to/14 Rcl Allegro to/143	30 GJ 04090	00,40,0.00	15,500.00 56,155.00	. :
•	March Total		71,655.00	•	
	<u> </u>	-			0.00
9/30/90	6800 Sth flr fr/14	30 GJ 09010	191,643.22		
9	September Total	- ***	191,643.22	0.00	

C 7 7 C 0 7 D

un Date: ime: 10:	02/25/91 34:31	YTD Gener Southdale	No. 310 al Ledger Office Centre mber 31, 1990	Page 99	
en Sub	Description	J Ref	Debit	Credit	Balance
2/31/90	RVS 6J 09010 to/14:	35 GJ 12097		191,643.22	
,	December Total		59,759.78	191,643.22	
					59,759.78
•	янну	TD Total	323,058.00	263,298.22	
1	÷				59,759.78
635 0000	Building Improve	ments			0.00
5/31/90	Carpet donation	6J 05045		875.00	,
	May Total		0.99	875.00	
·					(875.00
/31/90	'90 Bldg.Imp.fr/143	5 GJ 12098	17,647.13		
]	December Total		17,647.13	0.00	
					16,772.13
J	, жжжү:	TD Total	17,647.13	875.00	
			د خارد - جویا دینه باش ^ی آفت است دیده بدن جوی باش بهت هند بویز برش _د وی به	******	16,772.13
40 0000	Tenant Improveme				15,961.00
/29/90 0	irks Construction, irks Construction,	AP 00249 AP 00489	5,430.43 9,725.67	÷	
/29/90 0	irks Construction, Trks Construction,	AP 00490 AP 00491	12,156.74 8,406.02		,
/31/90 %	Javerly Lock Co	AP 00305	33.00		•
,	January Total	•	35,751.86	0.00	
					51,712.86
/28/90 C		AP 00574	1.036.20		
/28/90 C	irks Construction,	AP 00575	2,730.09		

```
Run Date: 03/04/92 Company No. 310
Time: 09:31:29 YTD General Ledger
                                                                           Page 108
                              SOUTHDALE OFFICE CENTRE
                             ASSETS - AS OF 12/31/91
            gen Sub Description J Ref Debit Credit
          December Total
          _____
                                                                       821,000.00
                                         119,144.25 65,677.96
                           ***YTD Total
                                                                       821.000.00
 1610 0000 Building
                                                                      8,727,911.76
                                          9.00 9.09
                          ***YTO Total
                                                                     8,727,911.76
 1630 0000 Building Imrove.-Asbestos
                                                                         59,759.78
 ****************
 03/01/91 Corr basmnt GJ 03108 GJ 03110
                                                               5.000.00
                                             6,078.76 🗸
 03/01/91 cirks ck1033 fr 1435 GJ 03110
 03/01/91 Tfr 5th fl E fr/1430 GJ 03108
                                             194,855.06
03/01/91 Tfr 6th fl fr/1430 GJ 03108 03/01/91 Tfr basmnt fr/1430 GJ 03108
                                             455,414.64
                                              621,993.66
 03/01/91 Adj 12/90 entry elev GJ 03108
                                                               8,143.16
03/01/91 Tfr 5th fl W fr/1430 6J 03108
                                              131,458.33
 03/01/91 Egan & Sons Air Cond AP 32961
                                              3,160.00
03/01/91 Spectrum Electric, I AP 33213
                                                283.00
03/01/91 Gebert Floor Coverin AP 33214
03/01/91 Thompson Plastering AP 33261
                                                  97.65
                                               4,635.00
03/01/91 Nova Environmental AP 33335
03/03/91 Cirks Construction, AP 33001
03/03/91 Cirks Construction, AP 33142
03/03/91 Cirks Construction, AP 33211
03/08/91 Thompson Plastering AP 33264
03/08/91 Thompson Plastering AP 33348
                                               4,405.72
                                              26,225.90
                                              9,750.53
                                              10,011.45
                                               400.00
                                              18,003.00
 03/11/91 Nova Environmental AP 33336
                                              2,250.24
 03/15/91 Gebert Floor Coverin AP 33326
                                                165.00
03/17/91 PLUMM, Inc. AP 33171
03/18/91 Egan & Sons Air Cond AP 33309
                                                 375.00
                                                975.00
                                            3,090.00
 03/18/91 Egan & Sons Air Cond AP 33311
 03/26/91 Harmon Glass & Glazi AP 33322
                                               316.67
```

Time: 09:31:32 YTO Ger		Genera HDALE (y No. 310 al Ledger OFFICE CENTRE S OF 12/31/91		Page	
Gen Sub			75 - n. Ref	0ebit	Credit	Bal
	Shield Fire Protecti Tfr 6750 bldg f/1430					
	March Total			1,548,883.39	13,143.16	
			,		1,5	95,500.
04/01/91	Egan & Sons Air Cond	AP	33458	6,360.00		
	Cirks Construction,	AΡ	33420	16,065.61		
	Electric Repair &		33491	2,458.46		
	Electric Repair 5		33492	4,524.81		•
	Electric Repair &		33493	1,028.45		
	Electric Repair &		33494			
	Electric Repair &		33504	2,346.69		•
,4/00/9T	Thompson Plastering	AP	33386	22,458.00		•
	April Total			58,461.43	9.00	
					1,6	53,961.
5/01/91	Cirks Construction,	AP	33556	9,466.60		
	Electric Repair &	АР	33581	6,584.71		
5/01/91	Egan & Sons Air Cond	AP	33582	5.925.00		
	Cirks Construction,		33560	1,790.80		
	Cirks Construction,		33562	458.70		
	Cirks Construction,		33538	2,512.40		
	Cirks Construction,		33639	9,251.00		
5/10/91	Electric Repair &	AP	33589	2,169.42	· · · · · · · · · · · · · · · · · · ·	
_	May Total			37,258.63	0.00	
					1.69	1,220.
6/01/91	Gnl.Con.33578 fr1430	GJ	06104	2.150.00 🗸		
	Egan Son33583 fr1430					,
			06109		2.169.42	
	GJ03110 Cirks sb1430				6,078.76	
	Nova AP33335 sb 1430			-	4,406.72	•
	Nova AP33336 sb 1430				2,250.24	
	Cirks AP33288 w 1630			654.50	1 507 05	
	SJ03108 bsmt. corr.			1 207 00	1,527.96	
	Electric Repair & Cirks Construction,			1,297.25 1,861.20		
-	June Total			10,452.95	16,433.10	

Run Oate: 03/04/92 Time: 09:31:36				Page 116
Gen Sub Description	J Ref	Debit	Credit	Balance
07/01/91 Rem-Con. Inc.	AP 33995	6,111.00		
_07/01/91 Genuine Construct.		5,019.00		
7/01/91 Egan & Sons Air Co		1.635.00		
07/01/91 Electric Repair &	AP 34045	446.65		
07/01/91 Gnl Con33578 to/14			2,150.00	
7/01/91 Egan&S.33583 to/1	30 63 07105		4,490.00	
7/01/91 Allegro32759 fr/14		775.00		
07/22/91 Electric Repair &		771.32		
7/25/91 Rem-Con, Inc: 7/28/91 Cirks Construction	AP 34190	5.549.50		
7/28/91 CIFKS CONSCIDENT	1, MP 34082	2,678.50	_	
July Total	_	23,716.97	5,640.00	
	_		1,7	2,316.89
\$2/01/91 American Building	AP 34252	531.21		
-	AP 34252	518.84		
13/01/91 American Building	AP 34264	450.63		
■B/01/91 Barrett Moving & S		2,342.00		
B/01/91 Qual.Ins34198 f/14		2,312.00		
8/30/91 Electric Repair &	AP 34392	337.43		
August Total		6,500.11	0.00	
n			1.70	8,817.00
/01/91 Electric Rapair &	AP 34554	2,433.46		•
9/01/91 American Building		394.40		
∰/01/91 American Building	AP 34480	465.23		
/23/91 Cirks Construction	AP 34522	693.00		
9/23/91 Cirks Construction	, AP 34531	1,435.50 ✓		
September Total		5,422.24	0.00	
			1,71	4,239.24
/01/91 Am Bldg34479 to/143	30 GJ 10004		693.00 🗸	•
8/01/91 Am Bldg34480 to/143	0 GJ 10004		1,435.50 /	
1/11/91 Electric Repair &	AP 34701	157.00		
16/91 Spectrum Electric.		300.00		
3/17/91 Cirks Construction,		202.40	.	
31/91 Cirks 34522 to/1443	GJ 10005		693.00	
October Total	-	659.40	2.821.50	
			1,71	2.077.14
/07/91 Harmon Glass & Glaz	i AP 20270	395.00		
- toilat naimon mrada a graf	T 4012	35.00		

	:31:39	SOUTHDALE 0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Page :
Gen Sub	Description	J Ref	Debit	Credit	Balanc
	Genuine Construction Cirks Construction,				
	November Total '		5,389.60	9.00	
·				1,	717,466.74
12/31/91	Asbestos imp.fr/1436	GJ 13001	889,624.94		
-	December Total	•	889,524.94	0.00	<u>-</u>
, -		•		2.	607,091.68
	··· ***YT	D Total	2,586,369.66		
		-		2,	607,091.68
म अर्थ अर्थ अर्थ अर्थ अर्थ	Proj. 3.04 fr 1435	* * *	37,055.53		16,772.13
******************	***************************************	* * *	37,055.53 37,055.53	0.00	16,772.13
क्षेत्र प्रदेश के प्	Proj. 3.04 fr 1435	* * *		0.00	16,772.13 53,827.6¢
33/01/91 - - 06/01/91 06/01/91	Proj. 3.04 fr 1435	GJ 03110 - - AP 33788 AP 33787	37,055.53 6,037.00 2,745.49	0.00	
33/01/91 - - 06/01/91 06/01/91	Proj. 3.04 fr 1435 March Total Petersen Electric Petersen Electric Ben Franklin Electri June Total	GJ 03110 - - AP 33788 AP 33787	37,055.53 6,037.00 2,745.49	0.00	
33/01/91 - - 06/01/91 06/01/91	Proj. 3.04 fr 1435 March Total Petersen Electric Petersen Electric Ben Franklin Electri	GJ 03110 - - AP 33788 AP 33787	37,055.53 6,037.00 2,745.49 21,149.00		
03/01/91 -06/01/91 06/01/91 06/13/91 -07/01/91 07/01/91	Proj. 3.04 fr 1435 March Total Petersen Electric Petersen Electric Ben Franklin Electri June Total	AP 33788 AP 33787 AP 33955 	37,055.53 6,037.00 2,745.49 21,149.00 29,931.49	0.00	53,827.6€ 83,759.15
03/01/91 -06/01/91 06/01/91 06/13/91 -07/01/91 07/01/91	Proj. 3.04 fr 1435 March Total Petersen Electric Petersen Electric Ben Franklin Electri June Total X N R Electronics. I Shield Fire Protecti Simplex Time Recorde Simplex34165 to/1430	AP 33788 AP 33787 AP 33955 	37,055.53 6,037.00 2,745.49 21,149.00 29,931.49 957.00 3,566.00 1,555.37	0.00	83,759.15
03/01/91 -06/01/91 06/01/91 06/13/91 -07/01/91 07/01/91	Proj. 3.04 fr 1435 March Total Petersen Electric Petersen Electric Ben Franklin Electri June Total X N R Electronics. I Shield Fire Protecti Simplex Time Recorde Simplex34165 to/1430	AP 33788 AP 33787 AP 33955 	37,055.53 6,037.00 2,745.49 21,149.00 29,931.49 957.00 3,566.00 1,555.37	1,155.37 1,155.37	53,827.6¢

Run Date: 02/17/9 Time: 15:57:02		YTO Gener Southbale	y No. 310 al Ledger OFFICE CENTRE s of 12/31/93		Paçe
Gen Sub Descr	iption	j Ref	Debit	Credit	Salan
1510 0000 Euild:	ing Land	***		6.	762,868.3
	***YT	O Total	09.6	0.00	
				ε,	762,268.3
1520 3000 Land]					825,985.1
03/31/93 GJ11225 f	fr/1635 .	63 03325	9,951.25		
March	Total		9,951.25	0.60	
					235,936.4
09/04/93 Superior 09/15/93 Thomas Si			£11.00 1,034.85		
September	Total		1,645.85	0.00	
				•	337,582.29
•	***YT) Total	11,597.10	0.00	-
				8	37,582.29
1610.0000 Suildi		***		ຮ,7	27,911.76
		- D Total .		2222222222 00.0	
		-		8,7	27,911.76
1630 0000 Euildi	ng Imrove/	sbestos	ي من هند مند بين بين بين بين مند بين هند بين	2,7	60,861.62
01/12/93 HOR 01/19/93 Nova Envir		AP 06211 AP 06350	518.00 1,500.00		
January T		_	2,015.00	0.90	
		-		2,7	62,879.62

Run Oate Time: 15	: 02/17/94 :57:02	•			Page 6
Gen Sub	Description	J Ref	Oebit	Credit	8alance
02/09/93	HOR	AP 06280	492.00		
	February Total		492.00	0.00	
·				2,7	63,371.62
01/30/93	Tfr 1.01 fr 1430	GJ 04398	155,522.94		
14/30/93	Tfr 1.02 fr 1430	GJ 04398	372,447.75		•
14/30/93	Tfr 1.03 fr 1430	GJ 04398	506,712.59		
4/30/93	Tfr 1.06 fr 1430	GJ 04398	170,212.37		
4/30/93	Tfr 1.07 fr 1430	GJ 04398	125,138.54		
•	April Total		1,330,034.30	0.00	,
_				4,0	93,405.92
16/30/93	Cirks:12/92 fr 143	0 GJ 06316	1,500.00		
	Tfr Asb WIP fr 143		13,764.71		
	Tfr 12/92 WIP f/14		4,940.76		•
-					
	June Total		20,205.47	0.00	
-	· · · · · · · · · · · · · · · · · · ·			4,11	.3,611.3:
2/31/93	Tran 8WIP fr 1430	GJ 12323	351,074.51		
	December Total	•	351,074.51	0.00	
-		-			
				4,48	4,625.96
	* = = 1	TD Total	1,703,824.28	0.00	
	÷				
				4,46	4,685.90
635 0000	Building Improve		. The second	38	1,833.04
3/31/93 (3J11225 to/1520	GJ 03325		9,951.25	•
	March Total	-	0.00	9,951.25	;
		_		***************************************	1,801.79
				37	1,001./2
		GJ 04397	638,358.14		
	r 2.04 fr 1435	GJ 04397	113,747.47		
	r 2.05 fr 1435	GJ 04397	8.423.00		
	fr AP 06574 fr 143		1,300.97		
/30/93 T	fr 3.91 fr 1435	GJ 04397	338,985.79		

Run Date Time: 09		YTO Gener Southbale	y No. 310 al Ledger OFFICE CENTRE unts - As of 12/3	31/92	Page 7
Gen Sub	Description	j Ref	Debit	Credit	Baland
	* *	*YTO Total	16,362.32	11,377.13	
1512 202	 ð &uilding			. محال الله الحال الله الله الله الله الله	825,985.19 727,911.76
*****	*******	***********			27,322770
	w.w	*YTD Total	0,00	0.00	٠
				8,7	727,911.76
1630 0000	Building Imrov	eAsbestos		2,6	07,091.68
	Genuine Construct Cirks Construction				
_	January Total	•	2,492.00	0.00	
				2,6	09,583.68
	Gen.Con.35102 to14 Cirks 35276 to/16			710.00	
_	March Total		0.00	2,492.00	
				2.6	07,091.68
1/19/92	Nova Environmental	AP 05909	3,909.16		
	November Total		3,909.16	0.00	
				2,6	11.000.84
	1.05 balance fr/14 1.04 WIP fr/1430				
_	December Total		149,860.78	0.00	
~*				2.7	60,861.62

99:59:25 YTO Gane			
ub Description J Ref	Osbit	Cradit	Balance
***YTD Total		2,492.00	
		2,	760,861.62
000 Building Improvements		· · · · · · · · · · · · · · · · · · ·	115,588.68
32 Ettel & Franz Compan AP 05650	43.690.00		. •
October Total	43,690.00	0.00	
ada jele, mga mana dana jena mana funa dana rana yani 1900. alisi dani			159,278.68
92 Petrotank reim-state CR 11203 92 NOVA #31577 fr/1225 GJ 11225 92 NOVA #31576 fr/1225 GJ 11225 92 Tank Abate fr/1225 GJ 11225 92 Tank Abate fr/1225 GJ 11225	1,804.80 1,506.20 2,376.23		
November Total	9,951.25	11,377.13	
2 3.06 WIP fr/1435 GJ 12231			157,852.80
22 2.02 WIP fr/1435 GJ 12231 22 Tank refund to/1520 GJ 12231			
December Total	223,980.24	0.00	·
			381,833.04
***YTO Total	277,621.49	11,377.13	
			381,833.04
00 Tenant Improvements	وها الحاد الحاد الحاد الحاد الحاد ولت وليد وليد وليد الحد الحد الحدد الحدد الحدد الحدد الحدد الحدد الحدد الحدد	3,	497,110.31
2 Clin.Ph.int TI reim RC 99104 2 Cirks Construction. AP 35169 2 Cirks Construction, AP 35099 2 Fabyanske, Svoboda e AP 35219 2 Tech Builders Inc. AP 35104	4,788.43 203,030.45		
2 Fabyanske, Svoboda e AP 35277 2 Cirks Construction, AP 35217 2 Cirks Construction, AP 35218	1,977.03 1,111.00 1,159.15		

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 16 of 90

Run Date: 05/31/96 Time: 16:05:45	YTD Genera SOUTHDALE O	No. 310 l Ledger FFICE CENTRE - 12/31/94		Page 1
Gen Sub Description	J Ref	Debit	Credit	Balance
1630 0000 Building Imro			4,4	64,685.90
03/31/94 Tfr WIP-Asbests : 03/31/94 Tfr WIP-Asbests :		400.00 950.00		
March Total		1,350.00	0.00	
			4,4	66,035.90
06/30/94 Rcl fr 1430-Asber 06/30/94 Rcl fr 1430-Asber		2,198.00 800.00		
June Total		2,998.00	0.00	•
			4,46	
08/01/94 Rcl fr 1635 08/01/94 Cirks Construction 08/09/94 Cirks Construction 08/31/94 Rcl fr 1635 -AP 7 08/31/94 Rcl fr 1635 -AP 7	on, AP 08929 811 GJ 08402	8,021.20 3,738.90 2,498.00 6,462.50 1,097.80		
August Total	-	21,818.40	0.00	
	-		4,49	0,852.30
. ·	*YTD Total	26,166.40	0.00	
			4,49	0,852.30

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 17 of 90

Run Date: 05/1 Time: 16:05:30			No. 310 l Ledger FFICE CENTRE - 12/31/95		Page i
Gen Sub De	escription	J Ref	Debit	Credit	Balance
1630 0000 Bt	uilding Imrove	Asbestos ***		4,4	90,852.30
05/31/95 Trns:	f fr 1430 - WIP	GJ 05577	46,685.10		
	May Total	•	46,685.10	0.00	
				4,5	37,537.40
06/30/95 Trnf	fr 1430-WIP Asb	GJ 06516	20,927.02		
	June Total	·	20,927.02	0.00	
				4,5	58,464.42
07/01/95 Plant	scape, Inc.	AP 10507	255.60		
	July Total	,	255.60	0.00	
		•		4,5	58,720.02
10/31/95 Sale	of SOC	GJ 10545		4,558,720.02	
Octo	ber Total	•	0.00	4,558,720.02	
		•	• • • • • • • • • • • •		0.00
	***YTI	Total	67,867.72	4,558,720.02	
					0.00

Halliwell Backup to Southdale Office Complex

<u>Date</u>	Description
	Southdale Purchase Agreement
· 11/3/88	Prudential letter to The Lexington Property Fund re: Southdale Office Building – Purchase Agreement
11/3/89	Purchase Agreement between 745 Property Investments to The Lexington Property Fund
6/30/89	Letter from James Felt Realty Services to Prudential re: PRISA 609 Southdale Office Center, Edina, Minnesota – market value as of 6/30/89 is \$20,650,000
7/3/89	Letter from Boelter Environmental Consultants to The Lexington Company re: Preliminary Cost Estimates – Southdale Office Center
	Sales Discount Info \$/Square Feet
11/3/89	Excerpt of Purchase Agreement between 745 Property Investments and The Lexington Property Fund
5/88	Inspection profile for the Southdale Office Complex, Edina, Minnesota prepared by The Institute for Environmental Assessment
8/23/89	Letter from The Institute for Environmental Assessment to Prudential Realty – comments to review of environmental audit
11/3/89	Prudential letter to The Lexington Property Fund re: Southdale Office Building – Purchase Agreement
7/3/89	Letter from Boelter Environmental Consultants to The Lexington Company re: preliminary cost estimates of \$6 million – Southdale Office Center
6/30/89	Letter from James Felt Realty Services to Prudential re: PRISA 609, Southdale Office Center, Edina, Minnesota – market value as of 6/30/89 is \$20,750,000
	Handwritten notes re: Southdale Purchase Agreement 11/3/88

<u>Date</u>	<u>Description</u>
	Asbestos Management Plan
6/29/90	Standard procedures for operation and maintenance activities involving asbestos in the Southdale Office Center – Master Manual Draft No. 2 by Nova Environmental Services
	Document entitled Asbestos and Public Health Concerns for the Prudential Property Company Southdale Office Center
6/6/90	Asbestos Building Survey, 6600 Southdale Office Center, Edina, Minnesota prepared for Richard Ellis, Inc. prepared by Nova Environmental Services
	Survey Southdale
7/14/86	Asbestos Survey Report for Prudential Insurance Company Property 745-609, Southdale Office Center prepared by BCM Converse, Inc.
12/9/87	Report of Asbestos Survey prepared by Twin City Testing to The Lexington Company
8/23/89	Letter from The Institute for Environmental Assessment to Prudential Realty re: comments on the environmental audit of the Southdale Office Center
	Cost File - 7th Floor Ph. 2 Suite 735
6/30/88	Standard form of Agreement between Prudential Property Company and EnviroNet, Inc. for the Southdale Office Complex Suite 735
11/30/88	Institute for Environmental Assessment Invoice No. 12304 in the amount of \$23,584.52
7/16/90	Invoice No. 43640 of Egan & Sons Air Conditioning in the amount of \$190
	Invoice from EnviroNet for asbestos abatement in the amount of \$96,035
6/27/88	Letter from United Properties to Prudential re: Southdale Office Center 735 – asbestos removal charges to date

<u>Date</u>	Description
6/29/88	Letter from The Institute for Environmental Assessment to United Properties – estimate for environmental management project costs in the amount of \$18,864 in the 6800 Building of the Southdale Office Center, Suite 735
	Project File - 7 th Floor Ph. 1 Pre-Sale
4/21/88	Letter from The Institute for Environmental Assessment to United Properties re: revisions to 4/13/88 proposal for Southdale Office Complex
4/13/88	Letter from The Institute for Environmental Assessment to United Properties re: inspection of Suites 795 and 727 at the Southdale Office Complex
4/26/88	Letter sent to all Southdale tenants regarding the asbestos management and abatement program being implemented
8/88	Final Report for Prudential Properties, 6800 Southdale Office Complex abatement of sprayed-on fire retardant on the 7 th floor East and South wings and the East and South return air shafts prepared by The Institute for Environment Assessment
	Cost File - 7th Floor Ph. 1 Pre-Sale
5/13/88	EnviroNet Invoice No. 3366 in the amount of \$170,000
5/31/88	EnviroNet Invoice No. 3378 in the amount of \$131,089.58
5/18/88	Change Order 1
5/18/88	Change Order 2
5/18/88	Change Order 3
7/8/88	Change Order 4
7/14/88	EnviroNet Invoice No. 5711 in the amount of \$992
7/8/88	Change Order 5
7/14/88	EnviroNet Invoice No. 5710 in the amount of \$3,731
5/19/88	Change Order 6

<u>Date</u>	<u>Description</u>
5/25/88	Institute for Environmental Assessment Invoice No. 11023 in the amount of \$10,000
8/31/88	Institute for Environmental Assessment Invoice No. 11400 in the amount of \$67,155.02
6/3/88	SECO Invoice No. 0020802 in the amount of \$1,697.65
6/27/88	United Properties letter to Prudential re: Southdale Office Center 735 removal – total Phase 1 charges of \$437,006 spent on asbestos removal
	Drawings, Sketches
5/1/96	Fax from Bob at Richard Ellis, Inc. to Todd attaching various drawings of complex
	Project File - Suite 735 Ph. 2 7th Floor Pre-Sale
Undated	Final Report, 6800 Southdale Office Complex, Abatement of Sprayed-On Fire Retardant on the 7 th Floor West Wing Suites 735 through 750 prepared by The Institute for Environmental Assessment
Undated	Specification for asbestos abatement for area renovation Southdale Office Center, Edina, Minnesota
	Specs
3/4/91	Specifications for asbestos abatement at 6800 France Avenue South, Edina, Minnesota prepared by Nova Environmental Services
	Post-Sale General Ledger
2/25/91	Year-to-date general ledger for Southdale Office Center as of December 31, 1990
	Opinion File Southdale
4/12/88	Prudential letter re: Southdale Office Center attaching letter from The Institute for Environmental Assessment regarding asbestos
4/21/88	Institute for Environmental Assessment letter to United Properties re: revisions to 4/13/88 proposal on the abatement of asbestos-containing materials at the Southdale Office Complex

<u>Date</u>	<u>Description</u>
8/6/90	Letter from Richard Ellis, Inc. to Abrams & Spector re: response to letter to Ms. Laurie Randall dated 8/2/90
8/20/90	Letter from Richard Ellis, Inc. to Cummings, Keegan & Co. re: proposal for move to 6 th floor
	Costs Summary Status of Abatement
Undated	Building summary for Southdale Office Complex
11/1/90	Letter from Richard Ellis, Inc. to Bank of Montreal re: Southdale Office Center Activity Update
8/6/90	Letter from Richard Ellis, Inc. to Abrams & Spector re: response to letter to Ms. Laurie Randall dated 8/2/90
8/20/90	Letter from Richard Ellis, Inc. to Cummings, Keegan & Co. re: proposal for move to 6^{th} floor
Undated	Prudential Insurance Summary of Available Information
	Future Cost
7/30/90	Letter from Nova Environmental Services to Richard Ellis, Inc. enclosing Addendum to Conclusion to be incorporated into the Final Air Monitoring Report for the 5 th floor East Abatement Project Report dated 4/19/90
	Dust Control Cost Pre-Sale/Non FP
5/25/88	Marsten Invoice to United Properties in the amount of \$1,650.42
5/17/88	Heerquist Elevators Invoice No. 47358 to United Properties in the amount of \$671.90
12/3/89	Final Report Abatement of 24 Expansion Joints October 21-23, 1988 6750 Southdale Office Complex penthouse, United Properties, Edina, Minnesota prepared by The Institute for Environmental Assessment
	Project File O&M
6/29/90	Standard Procedures for Operations and Maintenance Activities Involving Asbestos in the Southdale Office Center Master Manual Draft No. 2 prepared by Nova Environmental Services

<u>Date</u>	Description
3/89	Operations and Maintenance Plan for Southdale Office Center 6600, 6700, 6750 and 6800 France Avenue, Edina, Minnesota prepared by The Institute for Environmental Assessment
10/30/87	Excerpts from the Federal Register
	Southdale Inspection 1
	Photographs and Jack Halliwell Photo Log
	Southdale Inspection 2
	Photographs and Jack Halliwell Photo Log

3251710.01

EXHIBIT D

Southdale Office Complex 6800 Bidg Edina, MN (W.R. Grace)

TABLE 2 Summary of Asbestos Fireproofing Removal and Replacement Net Costs Prior to Building Sale

PROJECT INFORMATION	7th-Phases 1 & 2
Asbestos Abatement Dates	05/88-11/88
Asbestos Abatement Contractor	Environet
Asbestos Abatement Consultant	LEA.
Project Floor Area (square feet)	19,918
GROSS ABATEMENT PROJECT COSTS (1)	
Asbestos Abatement Contractor	\$453,041.38
Asbestos Abatement Consultant	100,739.54
Electrician	1,697.65
Total Gross Abatement Project Costs	\$555,478.57
Total Cost per square foot of floor area	\$27.89
DEDUCTIONS FOR NON FIREPROOFING	
PROJECT COSTS (NON FP)	
Vinyl Asbestos Floor Tile (VAT) Removal (2)	\$0.00
	12,586.00
Miscellaneous Project Cost Deductions (4)	0.00
Total Project Deductions	\$12,586.00
CONTAMINATED BUILDING	
COMPONENT REPLACEMENT COSTS (5)	1
Cellings	\$0.00
Light Fixtures	0.00
Ductwork	0.00
Total Contaminated Bldg. Component	
Replacement Cost	\$0.00
TOTAL NET PROJECT COSTS	
Total Net Project Costs	\$542,
Total Net Project Costs Per Square Foot of Floor Area	\$27.26

Notes:

(1) Refer to Table 3 for detailed listing of Gross Abatement Project Costs.

(2) No VAT removal required by project documents, therefore deduct = \$0.

(3) Refer to Appendix D for Summary of TSI Project Costs Deductions. (4) There were no Miscell ancous Project Cost Deductions, therefore deduct = \$0.

(5) Refer to Table 7 for costs not included in this report.

Southdale Office Complex 6800 Bldg Edina, MN (W.R. Grace)

			cleaning		n shafts	ir not on.	ig removal	r return for	0 for repairs ure.			3,620.38	une 1988.				
I ABLE 3 d Asbestos Fireproofing Removal and Replacement Projects Prior to Building Sale	Description	50% progress payment for asbestos abatement. (Contract Amount = \$340,000)	Removal & disposal of asbestos containing materials (includes C.O.#1 = \$1,668.38 for cleaning debnis in penthouse & roof area).	-937	C.O.#2 = \$0.00 for an additional 6 days to remove overspray from ducts & piping within shafts unkown to the owner.	C.O.#3 = \$0.00 for an additional 16 hours because of the wind conditions and building air not on.	C.O.#4 = \$992.00 : \$427.00 for ACM bulk removal from the roof & \$565.00 for glovebag removal of fireproofing over south door.	C.O.#5 = \$3,731.00 for southside enclosure & decon chamber to lower ducts & build air return for air conditioning.	C.O.#6 = \$1,194.00 : \$1,080.00 for covering of A/C copper pipe with plywood & \$114.00 for repairs to plywood covering after trouble with A/C refrigerant lines underneath plywood enclosure.	Removal and disposal of asbestos containing materials. (Contract Amount = \$106,035).	-98e	Total Contract Value = \$340,000.00 + \$106,035.00 + \$7,585.38 (CO's) = \$453,620.38	Inspection, assessment, sampling and analysis On—site monitoring, project development, consultation, lab analysis for April, May & June 1988. Abatement air monitoring		Remove electrical devices for asbestos removal.		
T Spriboding	Non FP Des	50% pr	Remowa debris i	Retainage.	C.O.#2 unkown	C.O.#3	C.O.#4 of firep	C.O.#5	C.O.#6 to plyw	Remov	Retainage.	Total	Inspect On-sit Abaten		Remov		
Asbestos Fire	Total h	\$170,000.00	131,089.38	40,000.00	0.00	0.00	992.00	3,731.00	1,194.00	96,035.00	10,000.00	\$453,041.38	\$10,000.00 67,155.02 23,584.52	\$100,739.54	\$2,769,1\$	\$1,697.65	\$555,478.57
ompleted	Invoice Date	\$/13/88	5/31/88		.27788	8/7/88	5/19/88	5/19/88	5/19/88	8/1/88		Subtotal=	5/25/88 8/31/88 11/30/88	Subtotal=	88/2/9	Subtotal=	ect Costs =
Detailed Costs for Complete	Invoice No.	9988	3378		C.O. #2	C.O. #3	C.O. #4	C.O. #5	C.O. #6	5737		Contractor Subtotal	11023 11400 12304	Consultant Subtotal	0020802	Electrician Subtotal	Gross Abatement Project Costs
Detailed	Vendor	Environet	Environet	Environet	Environet	Environet	Environet	Environet	Environet	Environet	Environet		1.E.A 1.E.A 1.E.A		Seco		Gross Al
	Floor No.	7th	推	7th	7th	7th	7th	7th	7	7th	Æ		å å	<u> </u>	4		

Halliwell Engineering Associates, Inc. July, 1996

Southdale Office Complex 6800 Bldg Edina, MN (W.R. Grace)

TABLE 4

Detailed Costs for Completed Asbestos Fireproofing In—Place Management Projects Prior to Building Sale Invoice Invoice Total Non Vendor No. Date Invoice FP Description	86.88 88.88 88.88	\$15,826.97	\$871.84 * *Asbestos testing: Total invoice \$7,026.00 for 137 bulk samples. Pro-rated cost for the 6800 huilding frequencing samples = (17 / 137) x \$7 0.26.00 = \$871.84 (rounded).	\$871.84	\$2,688.00 Cleanup from roof leak.	\$2,688.00	\$10,000.00 Risk assessment completion. 2,500.00 Professional services – Operations and Maintenance Plan.		\$250.00 Asbestos awareness video.	\$14,625.00	\$34,011.81
ted Asbes Invoice Date	7/12/88 7/13/88 8/8/88	btotal=	2/30/87	Total=	4/29/88	tal=	8/16/88 4/21/89	Subtotal	4/7/89	Fotal=	Sosts =
s for Complete Invoice I		Dust Control Subtotal=	4410-88-1151 1	Building Survey Total=	3356	Cleanup Subtotal=	11304		4-3162	O&M Total=	ment Projects (
Detailed Costs	Eavironet Environet Environet	I	Twin City Testing 4410-88-1151 12/30/87		Environet		LEA LEA	Kg:T	BCM Engineers		Total In-Place Management Projects Costs =
Floor No.	4th 4th 4th										Total

EXHIBIT E



June 25, 1990

Re: Southdale Office Center Edina, Minnesota

Based on the constituent analysis of the fireproofing samples for the above-referenced project, it is my opinion that the samples analyzed are Mono-Kote 3, which was manufactured by W. R. Grace.

Worksheets reflecting our analysis are attached.

William E. Longo, Ph.D.

BUILDING:

Southdale Office Center Edina, MN

The following bulk samples from the above-referenced buildings were analyzed and were used to form an opinion of the manufacturer and product.

Bulk Sample #	Sample Location	Collected By
1	7th Floor, Suite 735	IEA
2	7th Floor, Suite 735	IEA
3	7th Floor, Suite 735	IEA
4	7th Floor, Suite 735	IEA
5	7th Floor, Suite 735	IEA
6	7th Floor, Suite 735	IEA -
7	7th Floor, Suite 735	IEA
8	7th Floor, Suite 735	IEA
9	7th Floor, Suite 735	IEA
10	7th Floor, Suite 735	IEA
11	7th Floor, Suite 735	IEA
12	7th Floor, Suite 735	IEA
13	7th Floor, East Wing	IEA
14	7th Floor, East Wing	IEA
15	7th Floor, East Wing	IEA
16	7th Floor, East Wing	IEA
17	7th Floor, East Wing	IEA

Page -2-Southdale Office Center

18	7th Floor, East Wing	IEA
19	7th Floor, East Wing	IEA
20	7th Floor, East Wing	IEA
21	7th Floor, South Wing	IEA
22	7th Floor, South Wing	IEA
23	7th Floor, South Wing	IEA
24	7th Floor, South Wing	IEA
25	7th Floor, South Wing	IEA
26	7th Floor, South Wing	IEA
27	7th Floor, South Wing	IEA
28	7th Floor, South Wing	IEA
29	Basement Storage	IEA
30	Suite 165	IEA
31	Suite 555	IEA

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 32 of 90

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

Project # - Spl #:	Date: 5/11/89
Project Name: Law Assoc. /Ail.	Analyst: Ohm Reviewer:
Sample Identification: Pisa 00609 - 375A7/A	Keviewei.2
Gross Visual Description: Beige Chous, fine grained	nateix with gold
flykes and Dooks	<u>.</u>
Optical Data for Asbestos Identificat	ion
Morphology	
Birefringence	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Perlite	
Vermiculite 35 Mica	
Binders	
EFFERVESCENCE: New Modera le	
COMMENTS: USO	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 33 of 90

	K ASBESTOS SHEET	, ,
Project # - Sp1 #:	2	Date: 6/16/89
Project Name: Law Assoc /A		Analyst: Am Reviewer:
Sample Identification: Prise	1 00609 - 3750 >1	Reviewer: V
Gross Visual Description: β	ge, fibrous, finegra	ined matrix with
gold flakes and books		· .
Optical Data f	or Asbestos Identifi	cation
Morphology	Wav/	
Pleochroism	NO 1.54L 155//.	* * *
Sign of Elongation		
Extinction		· · ·
Birefringence	1000	* · ·
Fiber Name	- Chiysofile	
ASBESTOS MINERALS:	Est. Vol. %	• .
	17	
Chrysotile	<u>,</u>	 ,
Crocidolite	· 	
Tremolite/Actinolite		
Anthophyllite	·	
OTHER FIBROUS COMPONENTS:		•
·		
Mineral/Rock wool	· 	· · · · · · · · · · · · · · · · · · ·
Cellulose		
Synthetic		· · · · · · · · · · · · · · · · · · ·
Talc		
NON-FIBROUS COMPONENTS:		
m = n 4 .		
Perlite	3.5	
Mica		
Quartz	·	
Calcite		
Diatoms		
Other		
Binders	53	
	arbonyte acesent	
•		**************************************
EFFERVESCENCE: No.L- Moderate		
COMMENTS:		•
NSO NSO		<u> </u>
		

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 34 of 90

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

Project # - Spl #: M297Z-3	Date: 6/16/89
Project Name: Law Asso C. /A7L.	Analyst: Chm Reviewer:
Sample Identification: Prisa 00609 - 3754710	
Gross Visual Description: Beige filions, finegrain	ed mutrix with
gold flukes and books	<u> </u>
Optical Data for Asbestos Identifica	tion
Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt No	
Fiber Name	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
OTHER FIBROUS COMPONENTS:	·
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc	
NON-FIBROUS COMPONENTS:	
Perlite Vermiculite Mica Quartz Calcite	
Gypsum	·
Binders 53 Grysson Common - Some Cacbinute Diescot	
EFFERVESCENCE; wak - mdente	
COMMENTS: NSO	
••	·

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 35 of 90

MATERIALS ANALYTICAL SERVICES, INC.

BULK ASBESTOS SHEET

Project # - Spl #: M297 I-4	Date: 6/16/89
Project Name: Law Assoc. /ATL.	Analyst: Am Reviewer:
Sample Identification: Pr. 5a 60609 - 375A7/D	Reviewer: 2
**	
Gross Visual Description: Beige, fibrous, finegrained	matrix with
gold flakes and books	<u> </u>
Optical Data for Asbestos Identifica Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fibar Name Optical Data for Asbestos Identifica NAMA PROPER NAME OPTICAL NAME NAME OPTICAL NAME OPTICAL NAME OPTICAL NAME OPTICAL OPTICAL	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Mica	
Binders 53 Gypsom Common - Some Carbonate present	<u> </u>
EFFERVESCENCE: Weak - Anderste COMMENTS: () S O	
47	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 36 of 90

BOLK ASDESTOS SHEET	, , '
Project # - Spl #:	Date: 6/17/89
Project Name: Law Assoc. (ATL-	Analyst:
Sample Identification: Prisa 6069 375A72A	Reviewer:
·	·
Gross Visual Description: Beige, Phrous, Pre	grained matrix
with gold flakes and books	
Optical Data for Asbestos Identific	ation
Morphology	
Pleochroism	• • •
Sign of Elongation	
Extinction	* * *
Birefringence. Low No	*
Fiber Name	* • • <u></u>
ASBESTOS MINERALS: Est. Vol. %	
charactics 12	
Chrysotile	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Talc	· ·
NON-FIBROUS COMPONENTS:	•
· · · · · · · · · · · · · · · · · · ·	
Perlite	
Mica	
Quartz	
Calcite	
Gypsum	
Other	
Binders	
	ert.
EFFERVESCENCE; weak- moderate	. :
COMMENTS:	,
1/50	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 37 of 90

BULK ASBESTOS SHEET M 2972-6 Project # - Spl #: Date: Analyst: Project Name:____ Reviewer > Sample Identification: Gross Visual Description:_ lakes Asbestos Identification Optical Data Morphology -Pleochroism. Refractive Index . 1-54 L 1.55/ Sign of Elongation Extinction . . 0 Birefringence. Melt . . . Nο WYED FILL Fiber Name ASBESTOS MINERALS: Est. Vol. % 12 Chrysotile . Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIBROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc . . NON-FIBROUS COMPONENTS: Perlite Vermiculite 35 Mica . Quartz Calcite Gypsum . Diatoms Other Binders grains Carbonute EFFERVESCENCE; COMMENTS:

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 38 of 90 MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M 2972-7	Date: 6/17/89
Project Name: Law Assot /ATL	Analyst:
Sample Identification: Pr:sa 00609 375A - 726	Reviewer:
0 0 0	
Gross Visual Description: Beige, fibrous, fine graine	d matrix with
gold flukes and books	
Optical Data for Asbestos Identificat	ion
Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fiber Name Maly Maly	
ASBESTOS MINERALS: Est. Vol. %	:
Chrysotile	
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc	
NON-FIBROUS COMPONENTS:	
Perlite	
Quartz	-
Other Binders	
EFFERVESCENCE; weak - moderate	sent
COMMENTS: NSO	
· · · · · · · · · · · · · · · · · · ·	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 39 of 90

MATERIALS ANALYPICAL SERVICES, INC.

Project # - Sp) #: M Z972-8	Date: 6/17/89
Project Name: Law Assoc. /ATC.	Analyst: Am Reviewer:
Sample Identification: Prisa 00009 375A-72D	KGA16MGI:
	·
Gross Visual Description: Beige, fibross, finegrained	natrice a) th
, ,	
gold flakes and books	<u>-</u>
Optical Data for Asbestos Identificat	ion
Morphology	* *
Refractive Index	
Sign of Elongation	
Extinction	
Birefringence	
Fiber Name	
ASBESTOS MINERALS: Est. Vol. %	•
Chrysotile	
Amosite	
Crocidolite	
Tremolite/Actinolite	
Anthophyllite	•·
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
Tare	 -
NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite35	
Mica	
Quartz	
Calcite	
Gypsum	
Diatoms	
ouiei .	
Binders	
Gypsum Common - Scattered grains of Carbonut	c present
EFFERVESCENCE; weak to moderate	
COMMENTS:	
N50	
•	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 40 of 90 MATERIALS ANALYTICAL SERVICES, INC.

Project - Spl : M 2972-9	Date:_ 6/17/89
	21
Project Name: Law Assoc /ATL.	Analyst: Mm Reviewer:
Sample Identification: Prosa 00609 375A 73A	KGA1GMGL:
Gross Visual Description: Beige, fibrous, finegrained	matic with
gold Flakes and books	<u> </u>
Optical Data for Asbestos Identifica	tion
Morphology	
Refractive Index	
Sign of Elongation	
Extinction	
Birefringence	* *
Melt	
ASBESTOS MINERALS: Est. Vol. %	•
Chrysotile	·
Amosite	· · · · · · · · · · · · · · · · · · ·
Crocidolite	·
Tremolite/Actinolite	
	 -
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	
· · · · · · · · · · · · · · · · · · ·	
NON-FIBROUS COMPONENTS:	
Perlite	,
Vermiculite35	
Mica	
Quartz	
Calcite	
Diatoms	
Other	
Binders	
Gypsom command - Scattered grains of Carbon	ute present.
EFFERVESCENCE; weak - moderate	
COMMENTS:	•
N)50	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 41 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #:	Date: 6/17/89
Project Name: Law Assoc. /ATL.	Analyst: Ohn Reviewer:
Sample Identification: Prisa pocos 375A 738	Reviewer:
Sample Identification: First Ducor 2:37:	
Gross Visual Description: Beige, floors, fine grained of	natrix with
gold flakes and books	<u> </u>
Optical Data for Asbestos Identifica	
Morphology	
Refractive Index	
Sign of Elongation	
Extinction	
Melt	
Fiber Name	*
	· · · · · · · · · · · · · · · · · · ·
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Amosite	
Crocidolite	 .*
Anthophyllite	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Talc	
NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite	· ·
Quartz	
Calcite	·
Gypsum	
Other .	,
Binders 53	·
Gypsim Common) - Scattered grains of Carbonste	Preson +.
EFFERVESCENCE: wask- moderate	
COMMENTS:	
N)50	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 42 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #:	Date: 6/17/89
Project Name: Law Assot. ATL.	Analyst: JAm Reviewer:
Sample Identification: Prise 00609 375/4 7	73 &
Gross Visual Description: Beige, Chrows, Inegraine	d matrix with gold
flakes and books	
Optical Data for Asbestos Identif	ication
Morphology	· · · <u></u>
Refractive Index	
Sign of Elongation	
Birefringence	• • •
Melt	• • • • • • • • • • • • • • • • • • • •
ASBESTOS MINERALS: Est. Vol. %	•
Chrysotile	
Amosite	
Crocidolite Tremolite/Actinolite	
Anthophyllite	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Talc	<u> </u>
NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite35	
Mica	
Quartz	
Gypsum	
Diatoms	
	-
Binders 55 Gypsom Common - Scattered grains of Calboni	te Assent.
EFFERVESCENCE; weak - moderate	
COMMENTS:	•
N 50	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 43 of 90

Project # - Sp1 #: M2972-12	Date: 6/17/89
Project Name: Law Assoc. /ATL.	Analyst: Am Reviewer:
Sample Identification: Pr. sa 00609 375A	730 Reviewer:
**	
Gross Visual Description: Beige , fibross , fineg	and and a sold to
	Tamed MAFILE WIFE
gold flakes and books	
Optical Data for Asbestos Ident	ification
Pleochroism	•
Sign of Elongation	••
Extinction	
Birefringence	•
Melt	·
Fiber Name	• <u></u> _
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Amosite	
Crocidolite	
Tremolite/Actinolite	•
Anthophyllite	·
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	•
Fibrous glass	
Cellulose	
Synthetic	
Talc	
NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite	
Mica	· · · · · · · · · · · · · · · · · · ·
Quartz	
Calcite	
Gypsum	
Diatoms	·······
Other .	
Binders	• •
Gypsom Common - Scattered grains of	of Carbonate Present
EFFERVESCENCE; week- moderate	THE CALL PROPERTY OF THE PARTY
COMMENTS:	•
N50	
м . . «в	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 44 of 90 MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #:	Date: 6/17/89
Project Name: Law Assoc /ATL.	Analyst: GM Reviewer:
Sample Identification: Prisa 60609 375A	674
×-	
Gross Visual Description: Beige Chross finegra	ned matrix with
gold flakes and books	
Optical Data for Asbestos Identi	fication
Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fiber Name Maxy 100 1541155//. 1541155//. Chlysoph	
ASBESTOS MINERALS: Est. Vol. %	•
Chrysotile 7- Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIBROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc	
NON-FIBROUS COMPONENTS:	
Perlite Vermiculite Vermiculite Mica Quartz Calcite Gypsum Diatoms Other	
Binders 53 Grapsom Common - Scattered grains of Common - Scattered grain - Scattered grains of Common - Scattered grains of Com	Carbonute Assest
EFFERVESCENCE: week - moderate	
COMMENTS:	•

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 45 of 90 MATERIALS ANALYTICAL SERVICES, INC.

Project # - Sp1 #: M Z971-14	Date: 6/17/89
Project Name: Law Assoc. / A-TL.	Analyst: Ohm
Sample Identification: Prisa 00009 375A 67B	Reviewer:
Gross Visual Description: Beige, Fibrous, finegrained mu flakes and books	ifr. k with gold
Optical Data for Asbestos Identifica	tion
Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fiber Name Many Many	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc	
NON-FIBROUS COMPONENTS:	•
Perlite Vermiculite	
	
Binders 53 Gypsum Common - Scattered grains of carl	angle Present
EFFERVESCENCE: Weak-ndeate	
COMMENTS: NSO	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 46 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M Z972-15	Date: 6/7/89
Project Name: Law Assoc =/ATL	Analyst:
Sample Identification: 16.50 6060q 375A 67C	KSA16MGI.
••	
Gross Visual Description: Beige, Librors, finegrained or	16tr. X withgold
flakes and books	· · · · · · · · · · · · · · · · · · ·
Optical Data for Asbestos Identifica	Fion
Morphology Pleochroism Refractive Index Sign of Elongation Extinction Birefringence Melt Fiber Name Morphology M	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Perlite Vermiculite Mica Ouartz Calcite Gypsum Diatoms Other	
Binders 53 Gypsum Common - 500 thered grains of Callorate	Prescot.
EFFERVESCENCE: weak - moderate	
COMMENTS: NSO	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 47 of 90

MATERIALS ANALYTICAL SERVICES, INC.

project # - Sp1 #: M 2972-16	Date: 6/17/89
	analyst: Om
Sample Identification: Prisa 60609 375 A 670 Re	eviewer: //
Gross Visual Description: Beige, Chross, finegrained	metrix with
gold flakes and books	<u> </u>
Optical Data for Asbestos Identificatio Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fiber Name Optical Data for Asbestos Identificatio Name Na	
ASBESTOS MINERALS: Est. Vol. % Chrysotile	•
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc NON-FIBROUS COMPONENTS:	
Perlite Vermiculite Mica Quartz Calcite Gypsum Diatoms Other	
Binders 53 Gypsum Common - Seathered grains of Carbonate	Present
EFFERVESCENCE: Weak - noderate	
N=0	· · · · · · · · · · · · · · · · · · ·

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 48 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M 2972-A Date: 6/17/89	<i>;</i> —
Project Name: Law Assoc AATL. Analyst: Ala Reviewer:	
Sample Identification: Prisa 60609 375A 68 A	
Sample Identification. 11130 000 1 71711 0011	_
	_
Gross Visual Description: Beige, flows, finegrained matrix with	
gold flakes and bodes	
Optical Data for Asbestos Identification	\neg
Morphology	.
Pleochroism	ı
Refractive Index	
Sign of Elongation	ı
Extinction	J
Melt	- 1
Piber Name	1
	_
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Chrysotile	
Crocidalita	
Tremolite/Actinolite	
Anthophyllite	
OTHER FIBROUS COMPONENTS:	
Winown I (Doole room)	
Mineral/Rock wool	
Cellulose	
Synthetic	
Talc	
NAME TO BE A STATE OF THE STATE	
NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite35	
Mica	
Quartz	
Calcite	
Gypsum	
Diatoms	
Binders 53	
Gypsum Common - Scattered crains of Carbonate Prescot.	
EFFERVESCENCE: Weak - moderate	
	٠.
COMMENTS:	٠
÷	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 49 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M 2972 - 18	Date:6//7/89
Project Name: Law Assoc /ATL.	_ Analyst:
Sample Identification: Pasa 00609 375A	68B Reviewer:
Gross Visual Description: Beige, Chous, finego	ained matrix with
gold flakes and books	
Optical Data for Asbestos Iden	
Morphology	•
Pleochroism	*
Sign of Elongation	
Extinction	• • • • • • • • • • • • • • • • • • • •
Birefringence	·
Melt	**_*_*_*_*
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Amosite	
Crocidolite	
Tremolite/Actinolite	
withoughtime	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	
Cellulose	
Synthetic	•
	•
NON-FIBROUS COMPONENTS:	
Perlite	
Vermiculite	
Mica	
Quartz	
Calcite	
Gypsum	
Other	•
	
Binders	
Gypsom Common - Scattered grains of c	Car Denate presont.
EFFERVESCENCE: Work - moderate	
COMMENTS:	
· NSO	
	· ·

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 50 of 90 MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M 2972-19 Date: 6/15/89
Project Name: Law Assoc? /ATL. Analyst: The Reviewer:
Sample Identification: fr.sa 00609 375# 68C
Gross Visual Description: Beige, Abross, finegrained matrix with gold
flakes and books.
Optical Data for Asbestos Identification
Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Morphology Mady
Fiber Name
ASBESTOS MINERAIS: Est. Vol. %
Chrysotile
OTHER FIBROUS COMPONENTS:
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc
NON-FIBROUS COMPONENTS:
Perlite Vermiculite
Diatoms
Binders 53 Compson Common - Scattered grains of calborate present.
EFFERVESCENCE: Weak - Moderate
COMMENTS:

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 51 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: MZ97Z-ZO	Date:	6/17/89
Project Name: Law Assoc /ATC	Analyst Reviewer	Jam_
Sample Identification: Prisa 00609 375A- 680	KGAIGMGL	
	·	
Gross Visual Description: Beise Thous, fine grained Nakes and pooles	motion with	g sid
	ation	
Optical Data for Asbestos Identific Morphology Pleochroism		
ASBESTOS MINERALS: Est. Vol. %		•
Chrysotile		
OTHER FIBROUS COMPONENTS:		
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc		
NON-FIBROUS COMPONENTS:		
Perlite		
Quartz		
Binders 53 Binders 53 Grans - Statfand grans of Gardiale present		
EFFERVESCENCE: Well- Adealc		•
COMMENTS: USO	·	·
44		

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 52 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M2971-21	Date: 6/17/89
Project Name: / aw Associ /ATL.	Analyst:
Sample Identification: Prop. 375A - 69A	Reviewer.
· ·	·
Gross Visual Description: Beige Librors, fine	egrathed matrix with
gold flakes and books	
Optical Data for Asbestos Ident Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fiber Name Optical Data for Asbestos Ident Daty Pleoch Asbestos Ident Poly I ST I S	ification
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
NON-FIBROUS COMPONENTS:	
Perlite	
Diatoms	
Binders	Carbonate present
EFFERVESCENCE: Weak - moderate	′
COMMENTS:	
••	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 53 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #:	Date: 6/1/89
Project Name: Law Assoc. /ATL.	Analyst: 1
Sample Identification: Prisa 375A - 69B	Reviewer:
••	, , , , , , , , , , , , , , , , , , ,
Gross Visual Description: Beige, Choss, finegraine	el matrix with
gold flakes and books	
Optical Data for Asbestos Identifi	cation
Morphology Pleochroism	
ASBESTOS MINERALS: Est. Vol. %	· ·
Chrysotile	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc NON-FIBROUS COMPONENTS:	
Perlite	
Mica	
Diatoms	
Binders 53 Gypsom Common - Scattered grains of Car	bonute present
EFFERVESCENCE: Weak - moderate	.
COMMENTS: NSO	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 54 of 90 MATERIALS ANALYTICAL SERVICES, INC.

project # - Spl #:	Date: 6/17/89
Project Name: /aw Assoc. /ATL.	Analyst: Am Reviewer:
Sample Identification: $\rho_{c,sa}$ 375A - 69 C	Keviewel:
Gross Visual Description: Beige, Libious, finegrain	ed matrix with
gold Plakes and books	<u> </u>
Optical Data for Asbestos Identific	
Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fiber Name Morphology Macy 100 100 100 100 100 100 100 1	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc	
NON-FIBROUS COMPONENTS:	
Perlite Vermiculite Mica Quartz Calcite Gypsum Diatoms Other	
Binders 53 Cypsom common - Scattered grains of cachangle	· present
EFFERVESCENCE; weak-moderate	•
COMMENTS: NSO	
47.	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 55 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M 2971-24	Date: 6/17/89
Project Name: Law Assa /ATL.	Analyst: Jam Reviewer:
Sample Identification: Pr.5a 375A - 69D	Reviewer:
	·
Gross Visual Description: Beige, fibrous, finegrained	matrix with
gold Plakes and books	
Optical Data for Asbestos Identificat	ion
Morphology Pleochroism Refractive Index Sign of Elongation Extinction	
Birefringence	
Melt	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc	
NON-FIBROUS COMPONENTS:	
Perlite Vermiculite Mica Quartz Calcite	
Gypsum	
Binders	nute prosept
EFFERVESCENCE: Weak - Moderate	,
COMMENTS:	·
49	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 56 of 90 MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M2971 - 25	Date: 6/17/89
Project Name: Law Assoc. ATL.	Analyst: Shu Reviewer:
Sample Identification: Prisa 375A - 70A	Reviewel 1
Gross Visual Description: Beige filess , finegrained	matrix with
gold flakes and books	
Optical Data for Asbestos Identificati	on
Morphology	
Pleochroism	_· · ·
Refractive Index	}
Sign of Elongation	· ·
Birefringence.	
Melt	
Fiber Name	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	•
Amosite	
Crocidolite	
Tremolite/Actinolite	-
Anthophyllite	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
Fibrous glass	 .
Cellulose	_
Synthetic	
Talc	<u> </u>
NON-FIBROUS COMPONENTS:	·
Perlite	
	
Vermiculite35	
Quartz	
Calcite	
Gypsum	 -
Diatoms	
Other :	
ni-a	
Binders	- ,
Gypsom common - Scattered grains of Carbonete po	escot.
EFFERVESCENCY: Week - moderate	
COMMENTS:	
NSO	
4	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 57 of 90

MATERIALS ANALYTICAL SERVICES, INC.

•	BULK ASBESTOS SHEET	
Project	M2971-76	Date: 6/17/89
Project Name: Lan	ASSOC /ATC	Analyst: Ohm Reviewer:
Sample Identification	1: Prisa 375A - 70B	Reviewel.
Gross Visual Descript	tion: Beige, fibrous, finegrained	matrix with
gold flakes and	books	<u> </u>
opt	ical Data for Asbestos Identificat	ion
Morphology Pleochroism Refractive Inc. Sign of Elonga Extinction	\tau \tau \tau \tau \tau \tau \tau \tau	_• • •
ASBESTOS MINERALS:	Est. Vol. %	
Chrysotile	172 ::::::::::::::::::::::::::::::::::::	
Fibrous glass Cellulose Synthetic Talc		
NON-FIBROUS COMPONENT	'S:	
Perlite Vermiculite Mica Quartz Calcite Gypsum Diatoms Other	35	
Binders	Common - Scattered grains of carl	onate present
EFFERVESCENCE: weak	,	
COMMENTS:	NSO	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 58 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #: M2971-27	Date: 6/17/89
Project Name: Law Assoc /A-TL.	Analyst:
Sample Identification: Prisa 375A - 70 C	Reviewer.
Gross Visual Description: Beige, Cibious, Sinegraine	
gold flakes and Dooks	·
Optical Data for Asbestos Identificat Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Fiber Name Optical Data for Asbestos Identificat Usuly Usuly Usuly Issult Issult Optical Data for Asbestos Identificat Opticat Individual Optical Data for Asbestos Identificat Opticat Individual Optical Data for Asbestos Identificat Opticat Opti	ion
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	
NON-FIBROUS COMPONENTS:	·
Perlite Vermiculite Mica Quartz Calcite Gypsum Diatoms Other	
Binders Gypsum Common - 500 + tered grains of Car	Domite Present
EFFERVESCENCE: Weak - moderate	
COMMENTS:	
···	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 59 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #:	Date: 6/17/89
Project Name: Law Assoc. / ATL.	Analyst: Mn Reviewer:
Sample Identification: Pusa 375A - 200	Yerlewel. 5
se en	·
Gross Visual Description: Beige fibrous, finegra,	ned matrix with
gold flakes and books	•
Optical Data for Asbestos Identific Morphology	ation
Fiber Name	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool Fibrous glass Cellulose Synthetic Talc	
NON-FIBROUS COMPONENTS:	
Perlite Vermiculite Mica Quartz Calcite Gypsum	
Diatoms	
Binders	Carponula Presant
EFFERVESCENCE: wegl-moderate	
COMMENTS: NSO	·
•	

	Date: 6/27/90
Project Name: PRUSENTIAL: SOUTH DALE OFFICE CONREX	Analyst: W. B. Ent.
Sample Identification: 5-05/ FIRE PROS FING; BShT STO	RAGE BLOG 6800
+20.61	
Gross Visual Description: LICHT DEGG GOLD FLAMES AND	BOOKS AS WELL
AS FIDERS BOUND BY AN ABUNDANT FINE MATRIX.	
Optical Data for Asbestos Identification Morphology Pleochroism Refractive Index Sign of Elongation Extinction Birefringence Melt Fiber Name Optical Data for Asbestos Identification NAVE INVIVIOUS INVIVIOUS AND INVITATION INVITATION CHARTITUS	en · · · · · · · · · · · · · · · · · · ·
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
Other	- -
NON-FIBROUS COMPONENTS: Perlite	- - -
ABUNDANT GYPSUN WITH FINE GRANULAR CARBONATO	- F ANO UUPATZ
SEEN RANDOMLY THROUGHOUT.	
EFFERVESCENCE: WEAK	
COMMENTS: NO STARIH OBSERVED	

Project Name: Daugenial: South PACE OFFICE CONFLEX Analyst: L. S. Sample Identification: G - OS) FIRE PROOFING SUITE 165 BLOCG \$000 Gross Visual Description: CICHT DETGE, GOLD FLAKES, AND ASSAYS AS WELL AS FIREAS BOUND BY AND ADVISORY FIRE PROTAIX. Diffical Data for Asbestos Identification Pleochroism. Pleochro	Project # - Spl #:	-6	Date: 6/27/90
Sample Identification: 6 - 05 FIRE PRODEING SUITE 165 PLOCESOO Gross Visual Description: CICNT DELGE, COLD FLARES AND ROOKS AS WELL AS FIREAS ARUND AT AND ABUNDANT FINE DESTRIK. Optical Data for Asbestos Identification Pleochroism		120.61	Analyst: W.B. Ench
Optical Data for Asbestos Identification Norphology		• • • • • • • • • • • • • • • • • • •	
Optical Data for Asbestos Identification Norphology			
Morphology Pleochroism. Morphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence Nelt Fiber Name MANNET ASSESSTOS MINERALS: ASSESSTOS MINERALS: Chrysotile Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Kineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Wermiculite ABUNDANT GYPIUM WITH PINE CARNULAR CORSONATE AND AUARIT ORIGINAL OFF	Gross Visual Description: L/CH	T BEIGE, GOLD GLAKES A	NO BOOKS AS WELL
Morphology Pleochroism. Refractive Index (44) Liylis. Sign of Elongation Extinction. Birefringence. Welt. Fiber Name. ASSESTOS MINERALS: Chrysofile. ASSESTOS MINERALS: ASSESTOS MINERALS: ASSESTOS MINERALS: Chrysofile. ASSESTOS MINERALS: ASSESTOS MINERA	AS FIBERS BOUND BY AND	ADUNDANT FINE MATRI	/ y .
Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt Melt Melt Mo Fiber Name CHATJOTICE Assess MINERALS: Chrysotile Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other	Optical Data		ion
ASBESTOS MINERALS: Chrysotile	Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence. Melt	(+14) 1.54/1.55. - parellel Low NO	
Chrysotile Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Nineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders ABUNDANT GYPSUM WITH FINE GRANULAR CARSONATE AND AUART? OBJERUED THROUGH OUT. EFFERVESCENCE: WEAK	12502 11000	· · · · · · · · · · · · · · · · · · ·	
Amosite Crocidolite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Kineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders S5 ABUNDANT GYPJUM WITH PINE GRANULAR CARBONATE AND QUART? OAJEAVED THROUGHOUT. EFFERVESCENCE: WEAK	ASBESTOS MINERALS:	Est. Vol. %	
Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIBROUS COMPONENTS: Perlite Vermiculite Other Binders ABUNDANT GYPSUM WITH FINE GRANULAR CARBONATE AND QUARTZ ODJERUED THROUGH OUT. EFFERVESCENCE: WEAK	Amosite Crocidolite Tremolite/Actinolite		
Fibrous glass Cellulose Synthetic Other NON-FIBROUS COMPONENTS: Perlite Vermiculite S ABUNDANT GYPSUM WITH FINE GRANULAR CARBONATE AND QUARTZ ODJENUED THROUGHOUT. EFFERVESCENCE: WEAK	OTHER FIBROUS COMPONENTS:	•	•
Perlite Vermiculite Other Binders ABUNDANT GYPSUM WITH FINE GRANULAR CARBONATE AND BURRTZ OBJENUED THROUGHOUT. EFFERVESCENCE: WEAK	Fibrous glass Cellulose Synthetic		_ ·
Vermiculite Other Binders	NON-FIBROUS COMPONENTS:		
ABUNDANT GYPSUM WITH FINE GRANULAR CARBONATE AND QUARTZ ODJENUED THROUGHOUT. EFFERVESCENCE: WEAK	Vermiculite	35	
EFFERVESCENCE: WEAK	Binders	.55	· ·
EFFERVESCENCE: WEAK	ABUNDANT GYPSUM WITH	FINE GRANULAR CAR	BONATE AND
COMMENTS:			
NO STARCH OBSERVER			• •

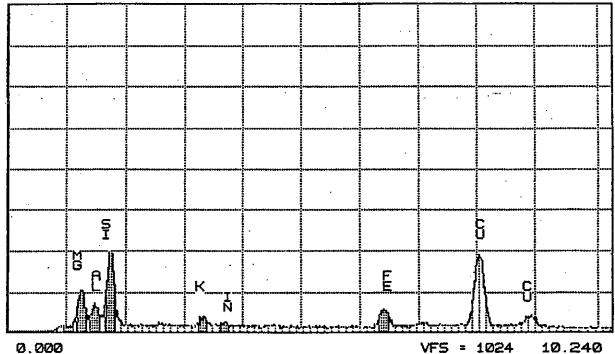
Project # - Spl #: <u>44334-7</u>	Date: 6/27/90
Project Name: PRUDENTIAL: SOUTHPACE OFFICE CONPCEX	Analyst: W.B. Each
Sample Identification: 7.05/ FIREPROFING SUI	7
Gross Visual Description: LICHT BEIGE. GOLD FLAKE	J AND BOOKS AS
WELL AS FIBERS BOUND BY AN ABUNDANT FINE PI	
Optical Data for Asbestos Identification Morphology Pleochroism Refractive Index Sign of Elongation Extinction Birefringence Melt Fiber Name Optical Data for Asbestos Identification AND EXTINCT AND INC. MANUAL INC.	
ASBESTOS MINERALS: Est. Vol. %	
Chrysotile	
OTHER FIBROUS COMPONENTS:	!
Mineral/Rock wool Fibrous glass Cellulose Synthetic Other	
NON-FIBROUS COMPONENTS:	
Perlite	
Binders	· · · · · · · · · · · · · · · · · · ·
ABUNDANT GYPSUM WITH CARBONATE AND STALL	AMOUNTS OF SILTY
AUARTZ SE ATTERED THROUGHOUT.	:
EFFERVESCENCE: UEAK	
COMMENTS: NO STANCH OBSERVEN.	

MATERIALS ANALYTICAL SERVICES, INC. 3597 Parkway Lane Suite 250 Norcross, GA 30092

TEM Analysis Type: Bulle
Project Number/ Sample Number: M-297/-/
Project Name: <u>South Dale</u>
Sample Identification: 00609 - 37574 714
Analyst/ 6/25/89 Longo
Asbestos Minerals:
Chysotile (diffElls)
0
Non-Asbestos Components:
Verniculite (DIH/EDS)
GYPSUM (ENS)
Calcite (EUS) smell Among
Comments:

12:36

Cursor: 0.000keV = 0 ROI (SIKa) 1.660: 1.810=3019

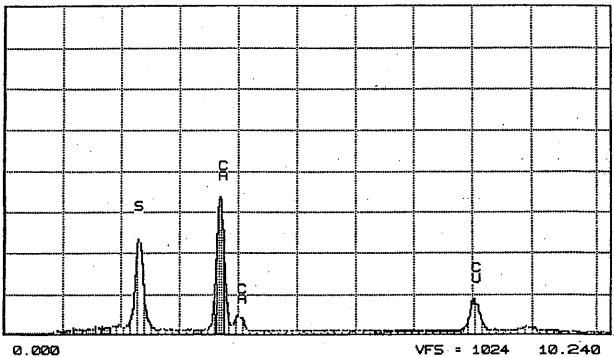


30 M-2971-1: VERMICULITE

SUN 25-JUN-89 12:38

Cursor: 0.000keV = 0

ROI (SIKa) 1.660: 1.810=306



3.000 20

M-2971-1: GYPSUM

MATERIALS ANALYTICAL SERVICES SUN 25-JUN-89 12:40

Cursor: 0.000keV = 0 ROI (SIKa) 1.660: 1.810=1615

35

M-2971-1: CHRYSOTILE

						·		-	•
	·	M.H.S. 3597 PARKUAY NORCROSS GA.	S. Ay Lahe A. 30092			ACID BUL	ACID DISSOLUTION BULK ANALYSIS	UTION	•
ANAL	ANALYSIS USING	28 SOLUTION	rion HCl			DATE	DATE 6/25/89		12.12.
No.	SAMPLE #	P-D + SAMPLE	P-D - SAMPLE	SAMPLE WEIGHT	FILTER WEIGHT	PINAL WT + PILTER	FINAL WT - FILTER	PERCENT FINAL WT	AMOUNT IN SOLU.
1	1-12921-1	8.877.8,	7.5723,	1.3055,	7.5365	7.9911.	0.4354,	33.4%.	29.97
2	•					7			
3									-3-
4		-	•						
. 5									
9	•								
7									
8		•							
6		•							
10					-				
11						·			
12									
13					•		•		
14								·	
15									
16				·					
17			•						
18									
19									
20		e .							
21								·	
22								-	
23	•							•	
24		٠						•	
25			•			•			
								بالنسيديين والمراجعة	



ADDITIONAL BULK ANALYSIS

STARCH VERIFICATION

Sample # <u>142977-</u> 7		Analyst W.7	- Cych
Date <u>6/23/80</u>	• .		•
1) Sample Analyzed before/after acid	dissolutions	·	·
Starch observed		/no) yes	
lodine test (ceiling tile only)	positive negative		··· ,
_	•		

PIS 00061026

3597 Parkway Lane • Suite 250 Norcross, Georgia 30092 (404) 448-3200



March 25, 1991

RE:

Southdale Office Complex Edina, Minnesota

The constituent analysis of additional fireproofing samples for the above-referenced project supplements my June 25, 1990 opinion and confirms that the samples analyzed are Mono-Kote 3, which was manufactured by W. R. Grace.

Worksheets reflecting the analysis are attached.

William E. Longo Ph.D.

BUILDING:

Southdale Office Complex Edina, Minnesota

The following bulk samples from the above-referenced building were analyzed and were used to supplement the opinion regarding the manufacturer and product.

Bulk Samples	Sample Location	Collected By
.1	6th Floor, Suite 674	LAI
.2	6th Floor, Suite 676	LAI
3	5th Floor, Suite 555 North Side	LAI
4	5th Floor, Suite 555 South Side	LAI
5	4th Floor, Suite 425	LAI
6	4th Floor, Suite 410	LAI
7	3rd Floor, SW Corner 1st Column	IAI
8	3rd Floor, SW Corner End Beam on South Side	LAI
9	2nd Floor, Suite 243 2nd Column from North	LAI
10	2nd Floor, Suite 243 West Wall Beam	LAI
11	1st Floor, Suite 165 2nd Column, 2nd Row from South End	LÁI
12	1st Floor, Suite 165 South Side	LAI .
13	Basement Storage by Room #22	LAI
14	Parking Garage by Stall #40	LAI

BULK ASBESTOS SHEET PRU/ South dale Analyst: (/ Mi Project Name:___ Sample Identification: 6800 France Ase Beige Des a old ۱٤١ ديه . Gross Visual Description:_ Optical Data for Asbestos Identification WAUV Morphology . Pleochroism. Refractive Index . Sign of Rlongation Extinction . . Q Birefringence. 100 Melt . . . nõ Fiber Name (h2-50-11) C Est. Vol. * ASBESTOS MINERALS: Chrysotile . Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIBROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIBROUS COMPONENTS: Perlite Vermiculite Other 53 Binders henc- week in. EFFERVESCENCE: COMMENTS:

RHT.K	ASBESTOS	CHEFT

	Project # - Spl #:	Date: 7/17/90
	Project Name: PRU/Southdale office	Analyst: 2 Molu
	Sample Identification: 68 60 France Ave #2	6 to Flow
	Gross Visual Description: Beige with fine	L. has gold flakes and
	books bound in a fine grained matrix	
•		
	Optical Data for Asbestos Identif Morphology	ication
	Pleochroism. Refractive Index Sign of Rlongation Extinction	
	Birefringence 100 Nelt AD CHTY 50-110	
	ASBESTOS MINERAIS: Est. Vol. \$	
D	Chrysotile	
	OTHER FIBROUS COMPONENTS:	
-	Mineral/Rock wool Pibrous glass Cellulose Synthetic Other	
	NON-FIBROUS COMPONENTS:	
	Perlite	
	Binders	
	Abundant Cupsom, fine grained as	gorogale
	EFFERVESCENCE: None- weak in Fooderd Gres	
	COMMENTS: // 5 &	

	Project # - Spl #: M2468-3 Date: 7/17/90
	Project Name: PRU /South dule Office Analyst: 9. Mother
	Sample Identification: 6800 France Ave # 3 5th Floor
	Books bounding fine grained matrix
	Optical Data for Asbestos Identification Morphology Pleochroism Refractive Index Sign of Klongation Extinction Birefringence Nelt Fiber Name Chysotiu
	ASBESTOS MINERAIS: Est. Vol. \$
D	Chrysotile
	OTHER FIBROUS COMPONENTS:
	Mineral/Rock wool Fibrous glass Cellulose Synthetic Other
	NON-FIBROUS COMPONENTS:
	Perlite Vermiculite Other
	Binders
	Abindant Compour, Like grained aggregate
	EFFERVESCENCE: None- week in Toble fed grees
	COMMENTS: N90

BULK ASBESTOS SHEET
Project # - Spl #: M2468-4 Date: 7/17/90
Project Name: PRU / Sou thouse office Analyst: Q. Mcd
Sample Identification: 6800 France Ave #4 5th Floor
Gross Visual Description: Boige with fine tiles, gold flakes and
bouts found in a fine around matein
Optical Data for Asbestos Identification
Horphology Pleochroism. Refractive Index Sign of Elongation Extinction Birefringence Helt Fiber Name
ASBESTOS MINERAIS: Est. Vol. & Chrysotile
Amosite Crocidolite Tremolite/Actinolite Anthophyllite
OTHER FIEROUS COMPONENTS:
Mineral/Rock wool Pibrous glass Cellulose Synthetic Other
NON-FIBROUS COMPONENTS:
Perlite
Abordent Grapsom, fine grained aggregate
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EFFERVESCENCE: None- Weak in Joseph areas

Project # - Spl #: <u>M 2468-5</u>	Date: 7/17/90
Project Name: PRU/ Gowshdale office	Analyst: Q. Molu
Sample Identification: 6800 France Ave #5	4th Flow
Gross Visual Description: Beige with fine files	aid flakes and books
bound in a line grained inghin	
U V	
Optical Data for Asbestos Identif	ication
Morphology	
Refractive Index	
Extinction	
Helt	• • • • • • • • • • • • • • • • • • • •
ASBESTOS MINERALS: Est. Vol. *	
Chrysotile	·
Amosite	
Tremolite/Actinolite	•
OTHER FIEROUS COMPONENTS:	
Kineral/Rock wool	•
Fibrous glass Cellulose	
Synthetic	
Other	
NON-FIBROUS COMPONENTS:	
Perlite 35	····
Other	
Binders	· · ·
	 _
- Abundant Gypsum, fine grained a	ggregal.
EFFERVESCENCE: pone - weak in Infalad ares	
COMMENTS:	•



MATERIALS ANALYTICAL SERVICES, INC. 3597 Parkway Lane, Suite 250 Norcross, GA 30092 404/448-3200

TEM ANALYSIS: BUCK ANALYSIS

PROJECT: PRUDENTIAL: SOUTHOALE OFFICE COMPLEX 120.61

SAMPLE NUMBER: 12468-5

SAMPLE ID: #5 4THFLOOR SUIFE 425

DATE OF ANALYSIS: 8/20/90

ANALYST: N. B. Cycl.

Asbestos Minerals: CHRYSOTICE (EOS)(DIFF)

Other Components: VERMICULITE (EDS)

64PSUM (EDS)(DIFF)

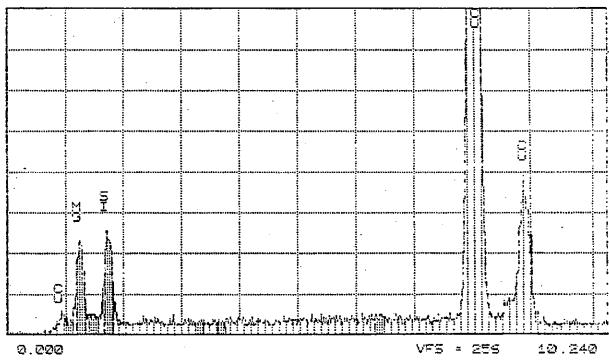
CALCITE (EDS) # SMALL AMOUNT

Comments:

MATERIALS ANALYTICAL SERVICES MON 20-AUG-90 15:20

21

Cursor: 0.000keV = 0 ROI (SIKa) 1.560: 1.810=1012



M2468-5, CHRYSOTILE

Cursor: 0.000keV = 0 ROI (SIKa) 1.660: 1.810=1031

MATERIALS ANALYTICAL SERVICES

M2468-5, VERMICULITE

0.000

21

- 256

10.240

MON 20-8UG-90 15:22

MATERIALS ANALYTICAL SERVICES MON 20-AUG-90 15:23 ROI (SIKa) 1.660: 1.810=62 Sursor: 0.000keV = 0 Ğ 5 VFS = 256 10.240 0.000 16

M2468-5, GYPSUM

MATERIALS ANALYTICAL SERVICES MON 20-AUG-90 16:24

Cursor: 0.000keV = 0 ROI (SIKa) 1.660: 1.810=60

M2468-5, CALCITE



ADDITIONAL BULK ANALYSIS

Sample # $\frac{112468-5}{68/69/90}$

Analyst J. K.

ACID DISSOLUTION

(1) Petri dish plus sample:	<u>8.3848</u> g
(2) Petri dish minus sample:	7,3342 g
(3) Original sample weight:	1.0506 g
(4) Filter weight:	0,0599 g
(5) Clean petri dish weight:	<u>7.3388</u> g
(6) Final sample weight plus filter and petri dish:	: 7.8 2 28 g
(7) Final sample wt: ((6) -[(4) + (5)])	0.4241 g
(8) Percent residue wt: ((7)/(3) x 100)	- 40,4 %
(9) Amount in solution: (100 - (8))	59.6 %



ADDITIONAL BULK ANALYSIS

STARCH VERIFICATION

Sample # 172468-5 Date 8/17/93	Analyst W. D. Eyel
1) Sample Analyzed before after acid dissol	utions
Starch observed	yes
lodine test (ceiling tile only)	positive

BULK ASBESTOS SHEET
Project # - Spl #: M2468-6 Date: 7/17/98
Project Name: PRU/ Southdale Office Analyst: J. Mirila.
Sample Identification: 6800 France = 6 4th Floor
Gross Visual Description: Beige with fine fiber, gridflike and books
Doublin a line grand matrix
Optical Data for Asbestos Identification
Norphology Pleochroism. Refractive Index Sign of Elongation Extinction Direfringence. Melt Fiber Name Chysoful Chysoful Chysoful
ASBESTOS MINERAIS: Est. Vol. *
Chrysotile
Mineral/Rock wool Fibrous glass Cellulose Synthetic Other
NON-FIBROUS COMPONENTS:
Perlite
Binders
Abundant Gypsom, fine grained aggregate
EFFERVESCENCE: AMC - Neglin Toolsted Greas
COMMENTS: N98

Project Name: PRN / South data Differed Sample Identification: GROO France # 3 3 France Gross Visual Description: Brige with Sine least, gall linker, and hours Devid in a fine grained region Morphology Description Pleochroisa. Down Refractive Index 1660104. ASBESTOS MINERALS: Est. Vol. \$ Chrysotile 12 Amosite 10 Crocidelite Tremolite/Actinolite Anthopyllite 16 OTHER FIEROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite 35 Chief 35 Abudant Gypun, fine grained against 16 EFFERVESCENCE: Anne weakin Touleted greas COMMENTS:	Project # - Spl #: <u>M2468-7</u>	Date: 7/17/98
Sample Identification: GROO France # 3 7 Flow Gross Visual Description: Brige with fine libers, gold libbes, and beits Doord in a fine graind region Norphology	project Name: PRV / Southdale office	
Down in a line gigined region Morphology Detail Data for Asbestos Identification Morphology Detail Data for Asbestos Identification Pleochroiss Data for Asbestos Identification Refractive Index Index Index Sign of Riongation Details Data for Asbestos Identification Refractive Index Index Refractive Index Male Data for Asbestos Identification Morphology Data for Asbestos Identification Refractive Index Refractive	Sample Identification: 6800 France # 3'9	Flour
Down in a line gigined region Morphology Detail Data for Asbestos Identification Morphology Detail Data for Asbestos Identification Pleochroiss Data for Asbestos Identification Refractive Index Index Index Sign of Riongation Details Data for Asbestos Identification Refractive Index Index Refractive Index Male Data for Asbestos Identification Morphology Data for Asbestos Identification Refractive Index Refractive		<u>-</u>
Down in a line gigined region Morphology Detail Data for Asbestos Identification Morphology Detail Data for Asbestos Identification Pleochroiss Data for Asbestos Identification Refractive Index Index Index Sign of Riongation Details Data for Asbestos Identification Refractive Index Index Refractive Index Male Data for Asbestos Identification Morphology Data for Asbestos Identification Refractive Index Refractive	Gross Visual Description: Beige with fine to be	s, gold flakes and books
Rorphology Pleochroism. Refractive Index Sign of Riongation Extinction Extinc	Dovod in a fine grained matrix	
Rorphology Pleochroism. Refractive Index Sign of Riongation Extinction Extinction Extinction Extinction Riterfringence. Relt. 90 Fiber Name Chu, Sotile Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Approx Lie grained aggreate Effervescence: Abudant Approx Lie grained aggreate COMMENTS:	,	
Pleochroism. Refractive Index Sign of Riongation Extinction. Birefringence. Relt Rolt Rolt Rolt Assessos Minerals: Chrysotile Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Pibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Crypun fine grained aggregate EFFERVESCENCE: None - weak in Tableted areas COMMENTS:		fication
Sign of Elongation Extinction Birefringence. Birefringence. Birefringence. Birefringence. Biber Name Chaptotile Assestos Minerals: Chrysotile Anosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Pibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Capton fine grained aggragate EFFERVESCENCE: Jone - weak in Tablated areas COMMENTS:	Pleochroism	
Birefringence Melt Fiber Name Chay Sptile ASBESTOS MINERALS: Chrysotile Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypray fine grained aggregate EFFERVESCENCE: None - weakin Testated areas COMMENTS:	Sign of Rlongation	
ASBESTOS MINERAIS: Chrysotile	Birefringence	
Chrysotile		
Chrysotile		
Amosite Crocidolite Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypan fine grained aggregate EFFERVESCENCE: None - weak in Testated areas COMMENTS:		*
Tremolite/Actinolite Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: Alone - weak in 7-solated agrees COMMENTS:	Amosite	
Anthophyllite OTHER FIEROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: Mone - weak in Testafed areas COMMENTS:		•
Mineral/Rock wool Fibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: Ame - weakin Textofed areas COMMENTS:	Anthophyllite	•
Pibrous glass Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: None - weak in 7-50/ofed aggregate COMMENTS:	OTHER FIBROUS COMPONENTS:	
Cellulose Synthetic Other NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: None — weak in Foolefed areas COMMENTS:	Mineral/Rock wool	
NON-FIEROUS COMPONENTS: Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: None - weak in 7-solated agregate COMMENTS:	Cellulose	
Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: None - weak in 750/afed areas COMMENTS:		
Perlite Vermiculite Other Binders Abudant Gypun, fine grained aggregate EFFERVESCENCE: None - weak in 750/afed areas COMMENTS:	NON-FIEROUS COMPONENTS:	
Binders	Perlite	·
Binders	Vermiculite 35	
Abudant Crypson, fine grained aggregate EFFERVESCENCE: None - weak in 750/afed areas		· · · · · · · · · · · · · · · · · · ·
EFFERVESCENCE: None - weak in . 7 solofed areas	Binders	
COMMENTS:	Abudant Gypsun time grained ag	gregal e
COMMENTS:		
COMMENTS:	EFFERVESCENCE: None - weak in . 7 solated grees	
No & \	COMMENTS:	
7073	7073	

Case 01-01139-AMC Doc 10690-3 Filed 10/24/05 Page 85 of 90

MATERIALS ANALYTICAL SERVICES, INC.

Project # - Spl #:	Date: 7/17/90
Project Name: PRU/Southdale Office	Analyst: 1 mol
Sample Identification: 6800 France # 8 3 19 Floor	
Gross Visual Description: Beige with fine fihers	, gold Plakes and
books bond , a fine graned matrix	
Optical Data for Asbestos Identific	cation
Pleochroism	
Sign of Rlongation	
Rirefringence.	_ · · ·
Fiber Name	
ASBESTOS MINERALS: Est. Vol. &	•
Chrysotile	•
Crocidolite	· · ·
Tremolite/Actinolite	•
OTHER FIBROUS COMPONENTS:	
Mineral/Rock wool	•
Fibrous glass	• .
Synthetic	

NON-FIBROUS COMPONENTS:	
Perlite Vermiculite 35	
Other	·
Binders 53	
	
Abundant by psum, fine grained aggregate	
EFFEDURGODNOR 4 7 1 / 2	
EFFERVESCENCE: None - , weak in Foolafed Grees	
COMMENTS:	

Project # - Spl #:	Date: 7/0/90
Project Name: PRU/Southdole Office	Analyst: Q Modu
Sample Identification: 6800 France = 9 2 nd France	bor
Gross Visual Description: Beige with fine 1.10:	signed flakes and books
Disting fine grained matrix	
Optical Data for Asbestos Identif	ication
Morphology Pleochroism Refractive Index Sign of Elongation Extinction Birefringence Nelt Fiber Name Maux 1880 100 100 100 100 100 100 1	
ASBESTOS MINERALS: Est. Vol. \$	•
Chrysotile	
OTHER FIBROUS COMPONENTS: Mineral/Rock wool Fibrous glass Cellulose Synthetic Other	*
NON-FIBROUS COMPONENTS: Perlite Vermiculite	
Other Binders 5-3	
Abundal Gypsum, fine grained aggregate	
EFFERVESCENCE: None - Weakin Isvofed Greg	
COMMENTS: N90	



MATERIALS ANALYTICAL SERVICES, INC. 3597 Parkway Lane, Suite 250 Norcross, GA 30092 404/448-3200

TEM ANALYSIS: BUCK AMACYJ/J

PROJECT: PRUDENTIAL: SOUTH DACE OFFICE CONPLEX: 120.61

SAMPLE NUMBER: May68-9

SAMPLE ID: "9 2 NO FLOOR SUITE 243

DATE OF ANALYSIS: 8/20/90

ANALYST: U.B. E. l

Asbestos Minerals: CHRYJOTILE (EDS) (DIFF)

Other Components: VERMICULITE (EDS)

(YPSUM (EDS)(OIFF)

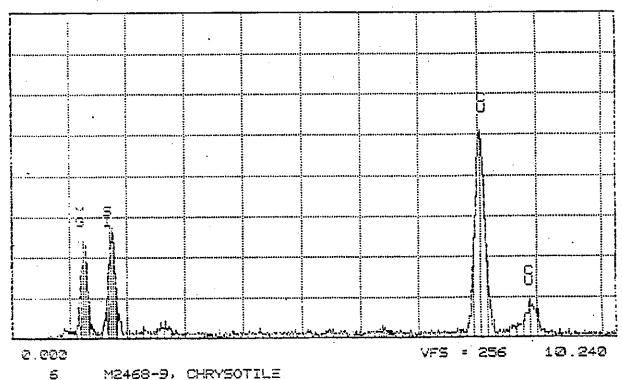
(ALCITE (EDS) * TRACE OBSERVED (CHARGING ADHERING)

Comments:

MOTERIALS ANALYTICAL SERVICES

MON 20-9UG-90 15:36

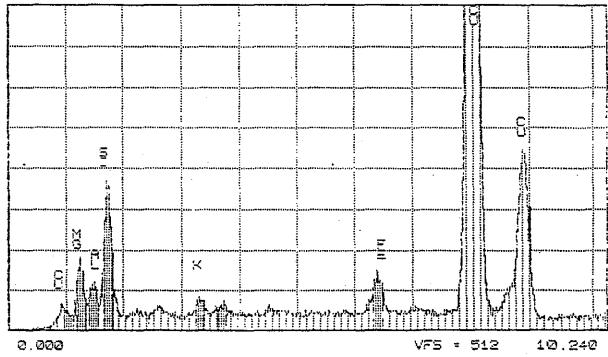
Ourson: 0.000keV = 0 ROI (SIKa) 1.550: 1.810:1035



M2468-9, CHRYSOTILE

MON 20-AUG-90 16:39

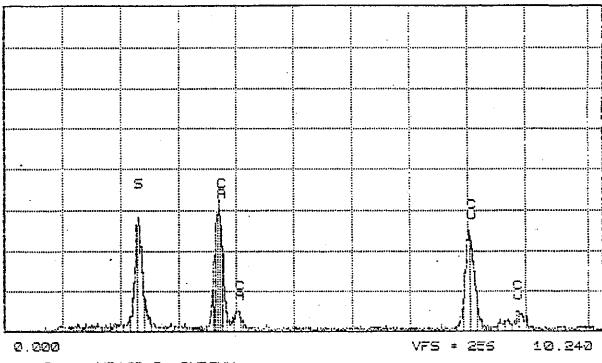
Curson: 2.000keV = 0 ROI (SIKø) 1.560: 1.810=2765



70 M2468-9, VERMICULITE

MON 20-AUG-50 16:40

Curson: 0.000keV = 0 ROI (SIKa), 1.550: 1.810=47



6 M2468-9, GYPSUM